

# **AIDS IN KENTUCKY**

## **December 31, 1999**

### **Kentucky HIV/AIDS Quarterly Report**

### **Data Sources and Limitations**

The HIV/AIDS Quarterly Report contains cases diagnosed and reported to the Kentucky Department for Public Health, HIV/AIDS Program through December 31, 1999.

According to state regulation 902 KAR 2:020, Section 7, physicians, hospitals, laboratories, counseling and testing sites and health professions licensed under KRS chapters 311-314 are required to report HIV and AIDS cases to the Kentucky Department for Public Health within five business days of diagnosis. AIDS cases are reported by name, while HIV cases are reported by initials. HIV tests can be either anonymous or confidential; however, only those confidential HIV positive cases are reported to the Kentucky Department for Public Health.

HIV and AIDS cases who reside in the Kentucky counties of Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer and Trimble are reported to an HIV/AIDS surveillance technician at the Jefferson County Health Department. All other HIV and AIDS cases are reported to an HIV/AIDS surveillance technician at the Kentucky Department for Public Health. Case information from both sites is combined at the Kentucky Department for Public Health to produce this report. The epidemiologist who compiles the HIV/AIDS quarterly report does not have access to personal identifying information.

When HIV and AIDS cases are reported, they are entered into separate databases. For example, the AIDS database contains all AIDS cases reported both living and deceased since 1982. The HIV data set, however, contains only those cases living with HIV who have not developed AIDS. The HIV database has been maintained since 1990.

This HIV database is limited because it only contains those cases currently living with HIV and can not be used to derive a proper rate. Also, without HIV name reporting we can never be completely sure if duplicates exist in the database.

Another limitation to the HIV data set is the high number for which the mode of exposure or risk factor is undetermined. As of December 31, 1999, 32% of HIV cases were listed with an undetermined mode of exposure.

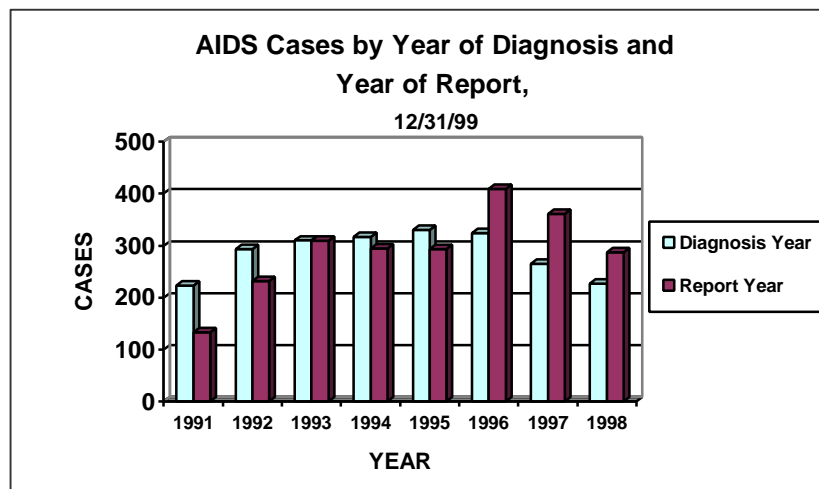
<b>Cumulative Kentucky HIV/AIDS Cases as of 12/31/99</b>	
<b><u>Type of Case</u></b>	<b><u>Number of Cases</u></b>
<b>AIDS cases both living and deceased</b>	3098
<b>Cases living with AIDS</b>	1472
<b>Cases living with HIV who have not developed AIDS</b>	2597

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AIDS CASES BY YEAR OF DIAGNOSIS												
Characteristics	1982-86	1987-91	1992	1993	1994	1995	1996	1997	1998	1999	Total	% <sup>(1)</sup>
<b>GENDER</b>												
Male	91	708	262	282	267	291	273	222	186	122	2704	87%
Female	6	74	31	28	50	39	51	43	41	31	394	13%
<b>TOTAL</b>	<b>97</b>	<b>782</b>	<b>293</b>	<b>310</b>	<b>317</b>	<b>330</b>	<b>324</b>	<b>265</b>	<b>227</b>	<b>153</b>	<b>3098</b>	<b>100%</b>
<b>AGE AT DIAGNOSIS</b>												
<13	0	12	0	1	1	3	5	0	1	2	25	1%
13-19	2	10	1	1	2	4	1	1	0	1	23	1%
20-29	25	209	56	56	65	50	44	36	29	25	595	19%
30-39	45	354	146	150	148	167	162	129	107	64	1472	48%
40-49	15	123	70	82	80	78	86	81	66	45	726	23%
>49	10	74	20	20	21	28	26	18	24	16	257	8%
<b>TOTAL</b>	<b>97</b>	<b>782</b>	<b>293</b>	<b>310</b>	<b>317</b>	<b>330</b>	<b>324</b>	<b>265</b>	<b>227</b>	<b>153</b>	<b>3098</b>	<b>100%</b>
<b>RACE</b>												
White	82	608	220	230	209	229	210	158	139	92	2177	70%
African-American	14	165	69	79	100	95	110	93	79	59	863	28%
Other	1	9	4	1	8	6	4	14	9	2	58	2%
<b>TOTAL</b>	<b>97</b>	<b>782</b>	<b>293</b>	<b>310</b>	<b>317</b>	<b>330</b>	<b>324</b>	<b>265</b>	<b>227</b>	<b>153</b>	<b>3098</b>	<b>100%</b>
<b>RISK</b>												
MSM <sup>(2)</sup>	65	523	191	191	175	190	165	140	106	77	1823	59%
IDU <sup>(3)</sup>	8	73	38	38	52	51	51	42	35	23	411	13%
MSM AND IDU	9	54	19	21	16	23	12	16	14	3	187	6%
Hemophiliac	6	37	13	7	6	8	2	1	0	0	80	3%
Heterosexual <sup>(4)</sup>	3	45	25	40	51	36	63	31	34	24	352	11%
Transfusion	3	25	2	3	5	2	2	0	0	0	42	1%
Perinatal	0	7	0	1	1	3	5	0	1	2	20	1%
Undetermined <sup>(5)</sup>	3	18	5	9	11	17	24	35	37	24	183	6%
<b>TOTAL</b>	<b>97</b>	<b>782</b>	<b>293</b>	<b>310</b>	<b>317</b>	<b>330</b>	<b>324</b>	<b>265</b>	<b>227</b>	<b>153</b>	<b>3098</b>	<b>100%</b>

- (1) Percentages may not total 100 due to rounding. (2) MSM = Men having Sex with Men (3) IDU = Injecting Drug User  
 (4) "Heterosexual" Includes persons who have had heterosexual contact with a person with HIV or at risk for HIV.  
 (5) "Undetermined" refers to persons whose mode of exposure to HIV is unknown. This includes persons who are under investigation, dead, lost to follow-up, refused interview, and persons whose mode of exposure remains undetermined after investigation.



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CUMULATIVE AIDS CASES BY RISK, RACE, AND GENDER, 12/31/99							
RISK		White		African Am.		Other	
		No.	% <sup>(1)</sup>	No.	% <sup>(1)</sup>	No.	% <sup>(1)</sup>
M A L E	MSM	1487	75%	318	46%	18	39%
	IDU	126	6%	161	24%	13	28%
	MSM AND IDU	120	6%	63	9%	4	9%
	Hemophilic	70	4%	9	1%	0	0%
	Heterosexual	89	5%	58	8%	5	11%
	Transfusion/Transplant	24	1%	4	1%	0	0%
	Perinatal	3	0%	5	1%	0	0%
	Undetermined	54	3%	67	10%	6	13%
TOTAL		1973	100%	685	100%	46	100%
F E M A L E	IDU	49	24%	57	32%	5	42%
	Hemophilic	1	0%	0	0%	0	0%
	Heterosexual	116	57%	78	44%	6	50%
	Transfusion/Transplant	10	5%	4	2%	0	0%
	Perinatal	7	3%	5	3%	0	0%
	Undetermined	21	10%	34	19%	1	8%
	TOTAL	204	100%	178	100%	12	100%

(1) Percentages may not total 100% due to rounding.

KENTUCKY AIDS CASES, LIVING AND DECEASED, AS OF 12/31/99				
Diagnosis Year	Total Cases	Living	Deceased	Case Fatality Rate <sup>(1)</sup>
1982	3	0	3	100%
1983	6	0	6	100%
1984	15	1	14	93%
1985	32	0	32	100%
1986	41	1	40	98%
1987	72	6	66	92%
1988	126	4	122	97%
1989	169	20	149	88%
1990	192	26	166	86%
1991	223	41	182	82%
1992	293	73	220	75%
1993	310	111	199	64%
1994	317	162	155	49%
1995	330	218	112	34%
1996	324	255	69	21%
1997	265	220	45	17%
1998	227	194	33	15%
1999	153	140	13	8%
TOTAL	3098	1472	1626	52%

(1) The case fatality rate is the percentage of AIDS cases diagnosed in a year which are deceased.

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### CUMULATIVE AIDS STATISTICS FOR KENTUCKY AND THE UNITED STATES

KENTUCKY AIDS CASES REPORTED AS OF 12/31/99		
Characteristics	Total	% <sup>(1)</sup>
<b>GENDER</b>		
Male	2,704	87%
Female	394	13%
Unknown	0	0%
<b>TOTAL</b>	<b>3,098</b>	<b>100%</b>
<b>AGE AT DIAGNOSIS</b>		
<13	25	1%
13-19	23	1%
20-29	595	19%
30-39	1,472	48%
40-49	726	23%
>49	257	8%
Unknown	0	0%
<b>TOTAL</b>	<b>3,098</b>	<b>100%</b>
<b>RACE</b>		
White	2,177	70%
African-American	863	28%
Other	58	2%
Undetermined	0	0%
<b>TOTAL</b>	<b>3,098</b>	<b>100%</b>
<b>RISK</b>		
MSM <sup>(2)</sup>	1,823	59%
IDU <sup>(3)</sup>	411	13%
MSM AND IDU	187	6%
Hemophiliac	80	3%
Heterosexual	352	11%
Transfusion	42	1%
Perinatal	20	1%
Undetermined	183	6%
<b>TOTAL</b>	<b>3,098</b>	<b>100%</b>

(1) Percentages may not always total 100% due to rounding.

(2) MSM = Men Having Sex with Men

(3) IDU = Injecting Drug User

U.S. AIDS CASES <sup>(4)</sup> REPORTED AS OF 6/30/99		
Characteristics	Total	% <sup>(1)</sup>
<b>GENDER</b>		
Male	592,552	83%
Female	118,789	17%
Unknown	3	0%
<b>TOTAL</b>	<b>711,344</b>	<b>100%</b>
<b>AGE AT DIAGNOSIS</b>		
<13	8,596	1%
13-19	3,564	1%
20-29	120,773	17%
30-39	319,947	45%
40-49	183,195	26%
>49	75,266	11%
Unknown	3	0%
<b>TOTAL</b>	<b>711,344</b>	<b>100%</b>
<b>RACE</b>		
White	311,377	44%
African-American	262,317	37%
Other	136,722	19%
Undetermined	928	0%
<b>TOTAL</b>	<b>711,344</b>	<b>100%</b>
<b>RISK</b>		
MSM <sup>(2)</sup>	334,073	47%
IDU <sup>(3)</sup>	179,228	25%
MSM AND IDU	45,266	6%
Hemophiliac	5,243	1%
Heterosexual	70,582	10%
Transfusion	8,806	1%
Perinatal	7,828	1%
Undetermined	60,318	8%
<b>TOTAL</b>	<b>711,344</b>	<b>100%</b>

(4) U.S. Cases from Centers for Disease Control and Prevention. *HIV/AIDS Surveillance Report*, 1999;11 (No. 1).

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AIDS CASES AND RATES BY YEAR OF DIAGNOSIS AND AREA DEVELOPMENT DISTRICT OF RESIDENCE AT TIME OF DIAGNOSIS												
DISTRICT	CASES & RATES <sup>(1)</sup>	<1992	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL CASES <sup>(2)</sup>	% <sup>(3)</sup>
1. Purchase	Cases	32	10	16	10	8	10	7	11	7	111	4%
	Rate per 100,000		5.5	8.6	5.4	4.3	5.3	3.7	5.8			
2. Pennyrite	Cases	48	13	12	9	16	15	9	10	5	137	4%
	Rate per 100,000		6.3	5.8	4.4	7.7	7.3	4.2	4.7			
3. Green River	Cases	26	14	10	6	12	9	7	9	7	100	3%
	Rate per 100,000		7.0	4.9	2.9	5.9	4.4	3.4	4.4			
4. Barren River	Cases	38	14	8	8	10	13	6	6	6	109	4%
	Rate per 100,000		6.2	3.5	3.4	4.2	5.4	2.5	2.5			
5. Lincoln Trail	Cases	20	6	8	12	8	10	13	7	1	85	3%
	Rate per 100,000		2.8	3.6	5.3	3.5	4.3	5.5	2.9			
6. North Central	Cases	379	127	143	152	152	158	132	105	83	1431	46%
	Rate per 100,000		15.7	17.5	18.5	18.4	19.0	15.9	12.5			
7. Northern Kentucky	Cases	95	33	45	26	22	21	17	10	8	277	9%
	Rate per 100,000		9.5	12.8	7.3	6.1	5.8	4.6	2.7			
8. Buffalo Trace	Cases	6	1	0	3	1	2	4	5	1	23	1%
	Rate per 100,000		1.9	0.0	5.6	1.8	3.7	7.4	9.1			
9. Gateway	Cases	4	4	5	5	2	4	2	1	2	29	1%
	Rate per 100,000		5.8	7.2	7.1	2.8	5.6	2.8	1.4			
10. FIVCO	Cases	18	9	5	5	7	6	3	7	1	61	2%
	Rate per 100,000		6.7	3.7	3.7	5.2	4.4	2.2	5.2			
11. Big Sandy	Cases	13	3	1	2	5	2	5	2	2	35	1%
	Rate per 100,000		1.8	0.6	1.2	3.0	1.2	3.0	1.2			
12. Kentucky River	Cases	8	3	1	4	4	1	2	3	1	27	1%
	Rate per 100,000		2.4	0.8	3.2	3.2	0.8	1.6	2.4			
13. Cumberland Valley	Cases	15	5	4	5	10	9	5	8	5	66	2%
	Rate per 100,000		2.2	1.7	2.2	4.3	3.9	2.1	3.4			
14. Lake Cumberland	Cases	9	2	5	5	9	5	2	5	0	42	1%
	Rate per 100,000		1.1	2.8	2.7	4.8	2.7	1.1	2.6			
15. Bluegrass	Cases	168	49	47	65	64	59	51	38	24	565	18%
	Rate per 100,000		8.0	7.6	10.4	10.1	9.2	7.9	5.8			
<b>TOTAL CASES</b>		<b>879</b>	<b>293</b>	<b>310</b>	<b>317</b>	<b>330</b>	<b>324</b>	<b>265</b>	<b>227</b>	<b>153</b>	<b>3098</b>	<b>100%</b>

(1) Rates are only listed for years of diagnosis 1992 - 1998. The rate for 1999 is not given due to incomplete data.

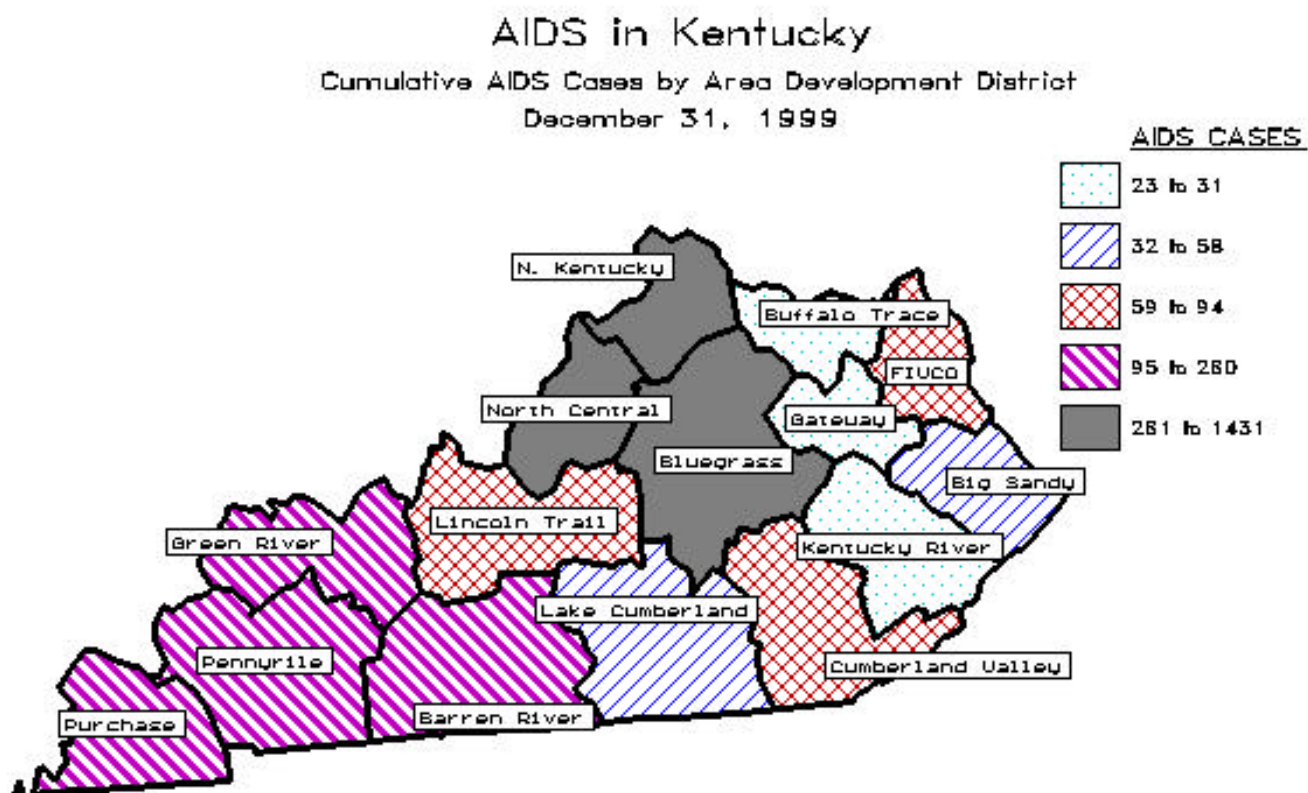
(2) Total AIDS Cases both Living and Deceased.

(3) Percentages may not always total 100% due to rounding.

Counties In Each Area Development District
1. Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, McCracken, Marshall
2. Caldwell, Christian, Crittenden, Hopkins, Livingston, Lyon, Muhlenberg, Todd, Trigg
3. Daviess, Hancock, Henderson, McLean, Ohio, Union, Webster
4. Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, Warren
5. Breckinridge, Grayson, Hardin, Larue, Marion, Meade, Nelson, Washington
6. Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, Trimble
7. Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen, Pendleton
8. Bracken, Fleming, Lewis, Mason, Robertson
9. Bath, Menifee, Montgomery, Morgan, Rowan
10. Boyd, Carter, Elliott, Greenup, Lawrence
11. Floyd, Johnson, Magoffin, Martin, Pike
12. Breathitt, Knott, Lee, Leslie, Letcher, Owsley, Perry, Wolfe
13. Bell, Clay, Harlan, Jackson, Knox, Laurel, Rockcastle, Whitley
14. Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, Wayne
15. Anderson, Bourbon, Boyle, Clark, Estill, Fayette, Franklin, Garrard, Harrison Jessamine, Lincoln, Madison, Mercer, Nicholas, Powell, Scott, Woodford

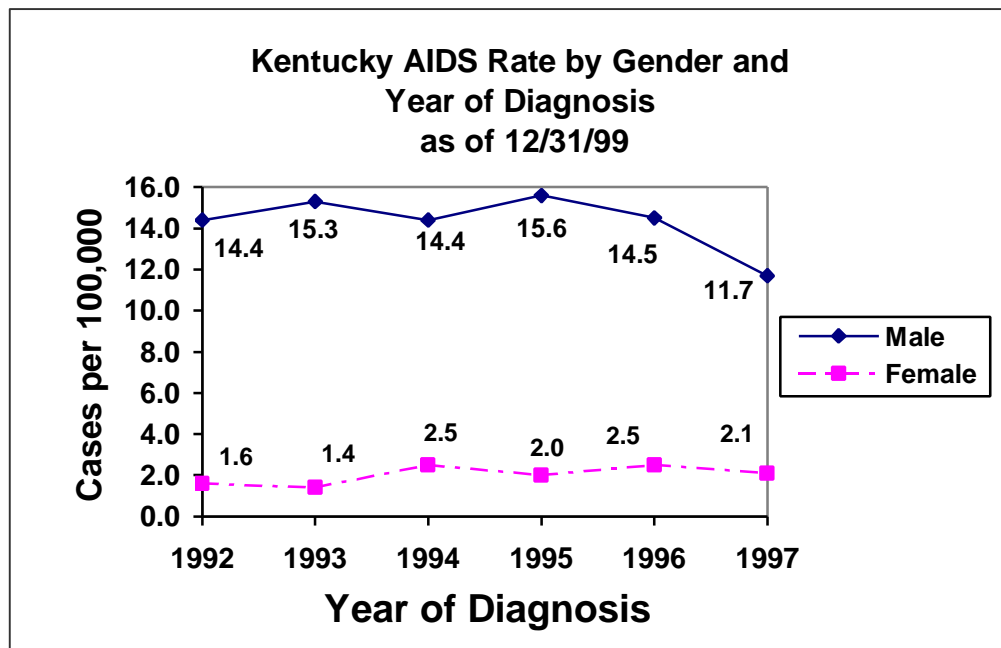
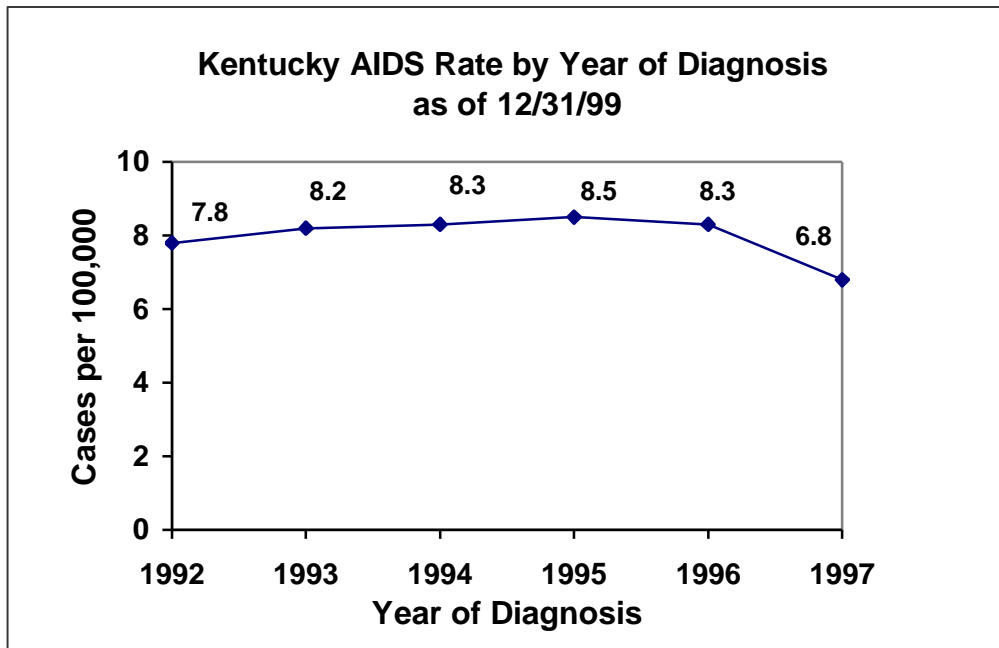
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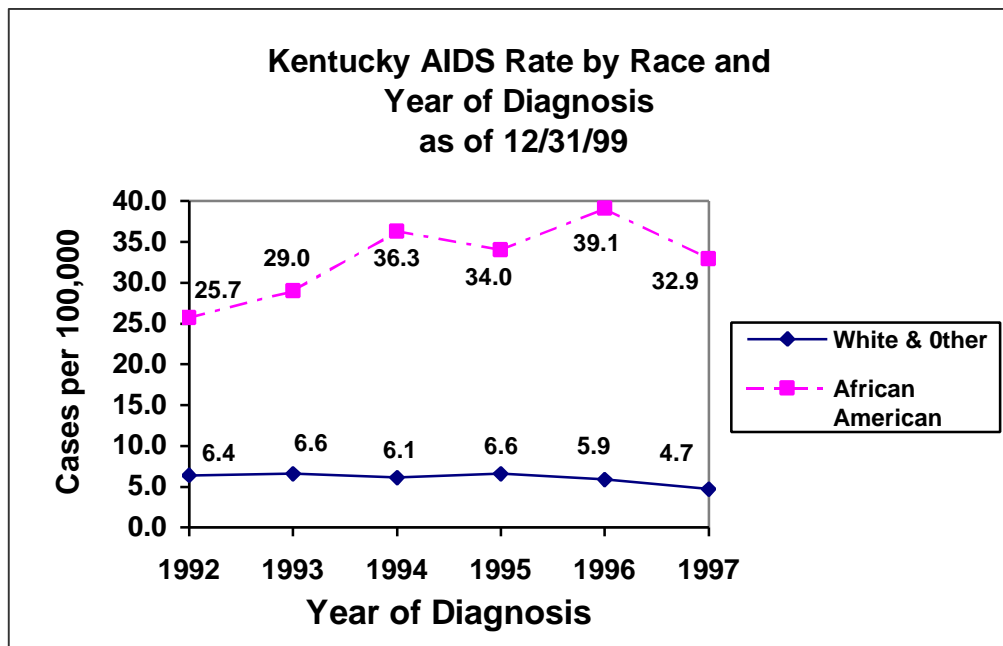
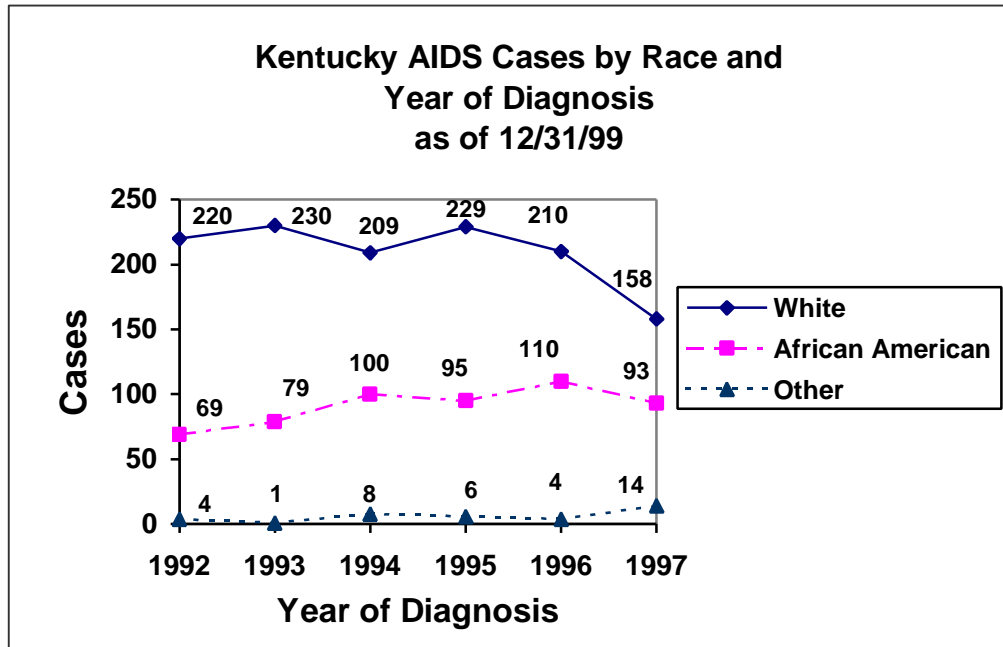
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